Sketch of real analysis

Reference: Real Analysis, Book by Halsey Royden;

Web course: <https://www.youtube.com/watch?v=g-Cu9ks3Gv4&list=PLvg2RutqSPrKufYuFeIFvkIv8R9lQnVbn>

1. Ep 01: Newton and Leibniz; (2018-1-22)
2. Ep 02: natural number, chapter 1-2; (2018-1-22)
3. Ep 03: upper bound, lower bound; (2018-1-22)
4. Ep 04, 05: natural number; (2018-1-24)
5. Ep 06: integer; (2018-1-24)
6. Ep 07: rational number; absolute value; (2018-1-24)
7. Ep 08, 09, 10: define real number with cauchy sequence; (2018-1-28)
8. Ep 11: overview of Lebesgue integration, Chapter 4; (2018-1-28)
9. Ep 12: Set-theoretic limit; (2018-1-28)
10. Ep 13: Cardinal number; (2018-1-28)
11. Ep 14: Cantor-Bernstein-Schroeder theorem; (2018-1-28)
12. Ep 15: countable set, chapter 1-3; Continuum; (2018-1-28)
13. Ep 16: binary number; (2018-1-28)
14. Ep 17: Cantor set康托尔集; (2019-3-16)
15. Ep 18: Well-ordering theorem; nowhere dense set; (2018-2-3)
16. Ep 19: open set’s measure; (2018-2-3)
17. Ep 20: Lebesgue measure; (2018-2-3)
18. Ep 21: nowhere continuous function; (2018-2-3)
19. Ep 22: Lebesgue outer measure; (2018-2-3)
20. Ep 23: Lebesgue measurable set; (2018-2-3)
21. Ep 24: homework; (2018-2-3)
22. Ep 25: definition of measure; sigma-ring; (2018-2-5)
23. Ep 26: Countable additivity, chapter 2-5; (2018-2-5)
24. Ep 27, 28: Lebesgue Measurable Sets, chapter 2-3; (2018-2-5)
25. Ep 29: simple function; (2018-2-5)
26. Ep 30, 31: Egorov's theorem; (2018-2-5)
27. Ep 32: The Riemann Integral, chapter 4-1; (2018-2-5)
28. Ep 33, 34, 35: Lebesgue Integration; (2018-2-5)
29. Ep 36: homework; (2018-2-8)
30. Ep 37: swap limit and integration; (2018-2-8)
31. Ep 38, 39: f 的间断点全体零测集(几乎处处连续) <=> f可积分; (2018-2-8)
32. Ep 40: swap limit and integration; (2018-2-8)
33. Ep 41: f 的间断点全体零测集(几乎处处连续) <=> f可积分; Newton-Leibniz axiom; (2018-2-8)
34. Ep 42: Newton-Leibniz axiom; (2018-2-8)
35. Ep 43: f(x)单调 <=> f’(x)几乎处处存在; rising sun lemma; (2018-2-8)
36. Ep 44: not understand; (2018-2-8)
37. Ep 45: LP space; (2018-2-8)
38. Ep 46: Minkowski inequality; (2018-2-10)
39. Ep 47, 48: norm; (2018-2-10)
40. -